GORBACHEV, T.F.; PATRUSHEV, I.S.; KOSTYLEV, A.D., kand. tekhn. nauk, otv. red.; CMBYSH-KUZNETSOV, S.O., red.

[Coal-mining machinery and equipment] Ugledobyvaiushchie agregaty i kompleksy. Novosibirsk, Izd-vo Sibirskogo otdniia AN SSSR, 1964. 162.p. (MIRA 17:5)

GORBACHEV, T.F., otv. red.; TARASOVA, N.V., red.

[Development of mineral deposits] Razrabotka mestorozhde-

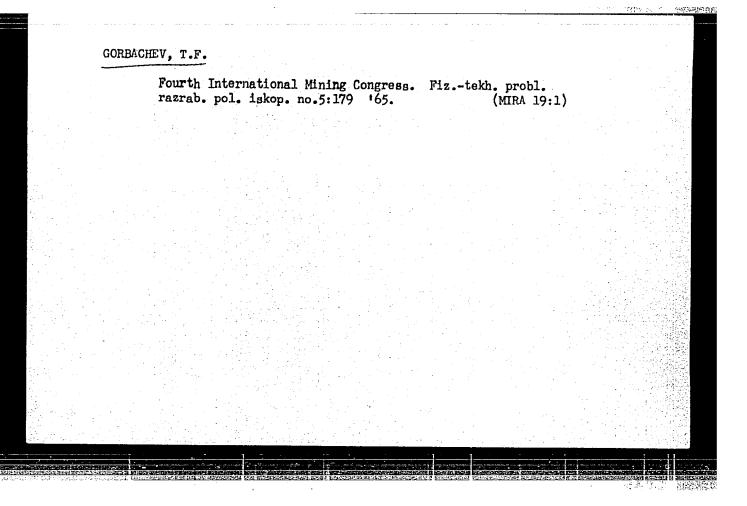
nii poleznykh iskopaemykh. Novosibirsk, Red.-izd. otdel Sibirskogo otd-niia AN SSSR, 1964. 227 p.

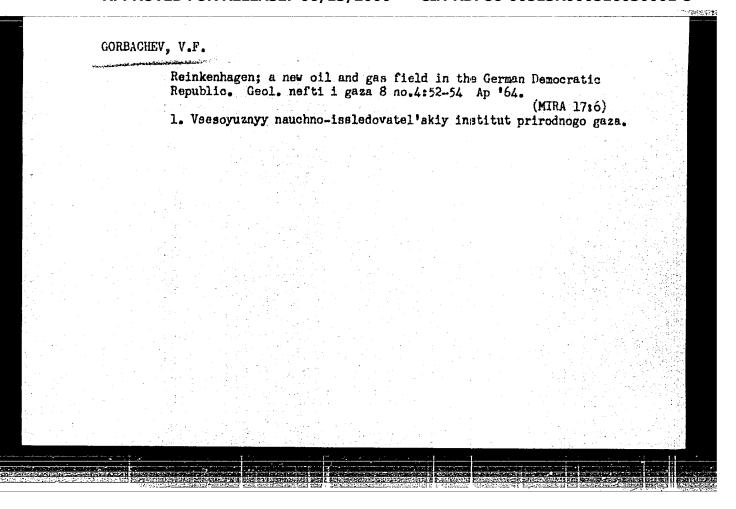
1. Akademiya nauk SSSR. Sibirskoye otdeleniye. 2. Chlen-korrespondent AN SSSR (for Gorbachev).

GORBACHEV, T.F.; GRITSKO, G.I.; VLASENKO, B.V.

Manifestation of rheological properties in the massif during advancing stoping operations in steeply ritching seams. Fiz.tekh. probl. razrab. pol. iskop. no.lil3-19 '65. (MIRA 18:10)

1. Institut gornogo dela Sibirskogo otdeleniya AN SSSR, Novosibirsk.





GORBACHEV, V.F.; 20LOTOV, A.N.; FOVYSHEV, A.S.

Methodology of oil search and exploration in the Irkutsk amphitheater. Geol.nefti i gaza 9 no.2:24-27 F '65.

1. Vsesoyuznyy nauchno-issledovatel\*skiy institut prirodnogo gaza i trest Vostosibneftegeologiya.

(MIRA 18:4)

GORBACHEV, V. I.

USSR/Engineering - Trucks, Welding

Aug 50

"Automatization and Mechanization of Assembly-Welding Operations in Manufacturing All-Metal Bodies for Automobiles," Engineers, N. A. Chuvakov, V. I. Gorbachev

"Avtogen Delo" No 8, pp 9-12

Describes welding equipment for mass production of all-metal cab of ZIS-150 truck. Subject processes developed in three directions: Construction of special automatic multiple-spot welding machines, mechanization of assembly stands and equipment, and development of portable tools for spot welding.

PA 167T52

135-58-8-8/20 Projection Welding of Ball-Bearing Separators (Rel'yefnaya TITLE: svarka separatorov sharikopodshipnikov) Svarochnoye proizvodstvo, 1958, Nr 8, pp 28 - 30 (USSR) PERIODICAL: ABSTRACT: Detailed information is given on a new method and devices for welding ball-bearing separators developed by 1 GPZ together with 4 GPZ, the "Elektrik" Plant, VNIIESO and the

Gorbachev, V. I., Engineer

Moskovskiy energeticheskiy institut (Moscow Institute of Power Engineering). The special welding device (fig. 3,4) is used on the "MTIP" spot welding machine converted into a welding press. A special device for this process, controlling the quality of the welded joint by the current which passes through each welded spot, was developed at MEI. This simple device consists of an amplifier, a light signal device and a power supply unit. Light signals appear when the welding current amplitude deviates from the admissible range. The described installation has been used in the production of 50,000 bearings which are undergoing tests at 5 plants. The process is very stable and elimin-

Card 1/2

AUTHOR:

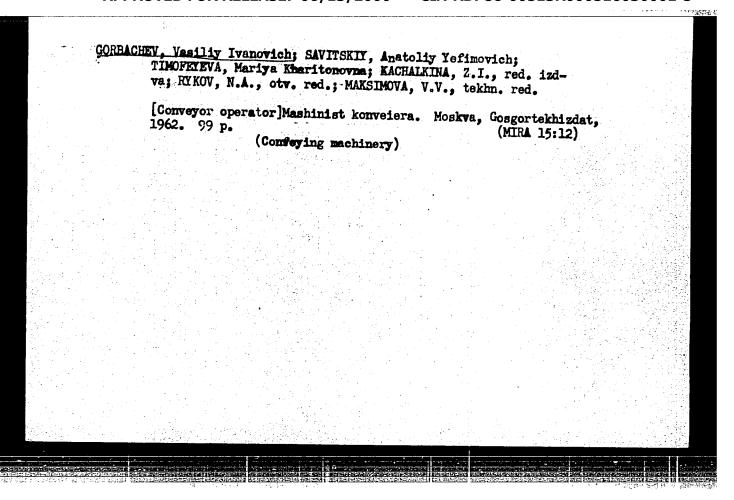
Projection Welding of Ball-Bearing Separators

ates metal spatter. Results have been satisfactory. There are 4 diagrams, 1 graph, 1 photo and 2 Soviet references.

ASSOCIATION: lst GPZ

1. Ball bearing cages—Production 2. Welding—Applications

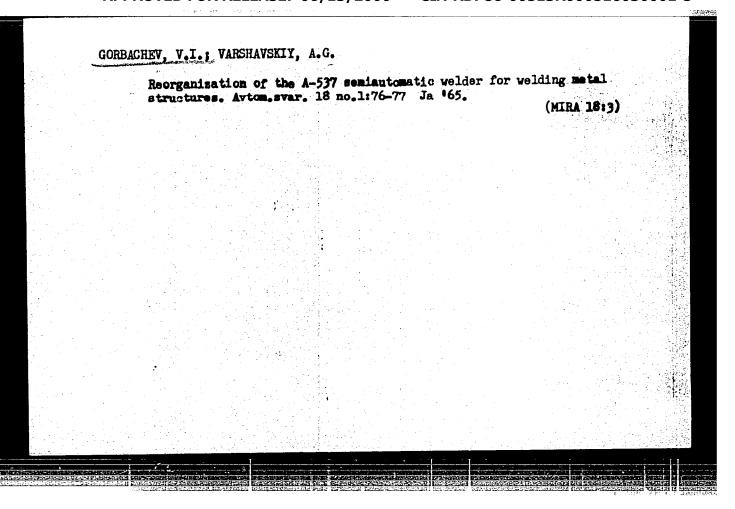
Card 2/2



PACHENTSEV, Yu.A.; GORBACHEV, V.I.

Projection welding of ball bearing separators with an alternating current. Avtom. svar. 17 no.4267-70 Ap \*64 (MIRA 18:1)

1. Institut elektrosvarki imeni Ye.O.Patoma AN UkrSSR for Pachentsev). 2. Pervyy gosudarstvennyy poshipnikovyy zavod (for Gorbachew).



"Contact relief welding of separators of ballbearings"

Report presented at the regular conference of the Moscow city administration NTO Mashprom, April 1963.
(Reported in Avtomaticheskaya Svarka, No. 8, August 1963, pp 93-95, M. M. Popekhin)

JPRS24, 651 - 19 May 64

(MIRA 18:10)  1. Voronezhskiy oblastnoy psikhonevrologichesk y dispanser.		Some clinical statistical data on mental morbidity of vascul genesis. Trudy Vor. med. inst. 51:43-48 163.		
	e.	1. Voronezhskiy oblastnoy psikhonevrologichesk v dispanser.	MIRA 18:	10)
사용 보통 보통 보통 기계 등 보통				
사용하다 보고 있는 사용하는 것이 되었다. 그 사용하는 사용하는 것이 되었다. 그 사용하는 				

- USSR / Diseases of Farm Animals. Toxicoses.

R

Abs Jour: Ref Zhur-Biol., No 8, 1958, 35850.

Author

: Gorbachev, V. M. : Timiryazev Agricultural Academy. Inst : Diagnosis of Food Poisoning. Title

Orig Pub: Izv. Timiryazevsk. s.-kh. akad., 1957, No 2

30-45.

Abstract: It was observed that histologic examination of coarse fodder enables us to discover admixture

of poisonous plants. Generic and specific indications of conductive fascicles are demonstrated, as well as shapes and sizes of filaments, of epidermis cells and other tissues of various poisonous plant families. Admixture

Card 1/2

USSR / Diseases of Farm Animals. Toxicoses.

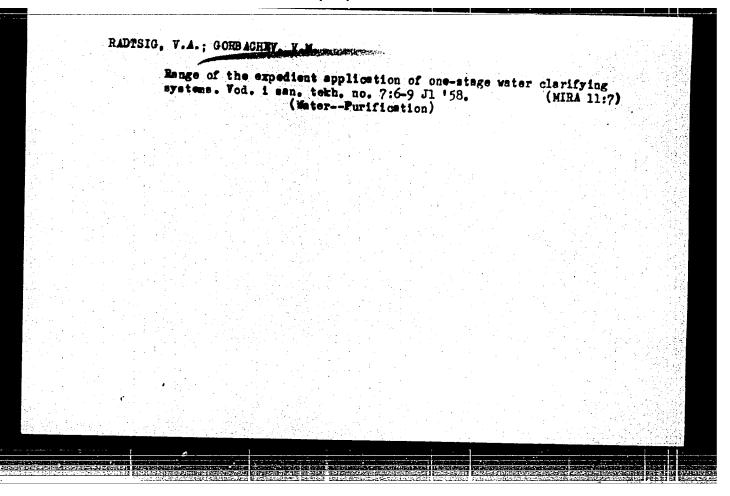
R

Abs Jour: Ref Zhur-Biol., No 8, 1958, 35850.

Abstract: of poisonous plant fruits and seeds in grain fodder can be easily recognized by their form and their characteristic appendages. Plant fruits and seeds are divided into 10 species, in accordance with these indications. Measures for preventing food poisoning are discussed.

Card 2/2

25



	Mud collecting ca highly turbid riv 160.	er waters. 170	dy Ural.politekh	the treatment of inst. no.85:28-38 (MIRA 14:8)	
		(Water-Purif	ication)		
			ter Selviciti territori		
	기(41) - 일 모양들이다.				
	님이 없다다는 그는 맛이 나를 하다				
	전 명상으로 보이 함께 하고싶다.				
	의 이 지도 하기 가득 방탕의				
gen (typy to the great time) yet					
	나 얼마는 한 얼마나의 맛있다				
	그렇게 하는 것 같은 회사사				
				ing the control of th	
	다 빨리는 그는데 네트폰				그 반장 원호의
	보고 있다.		Proposition and the contract of		
			tura se Militaria	th I be Districted	
				<u>and the state of </u>	
ere			السيار والمراجعة المراجعة	inglianne nå minima frånna år mit in red der ör ann anneren.	

JONDACHEV, V.M. USSR/Physics - Positron absorption

FD-1358

Card 1/1

: Pub. 146-3/18

Author

Baskova, K. A., and Gorbachev, V. M.

THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAM

Title

Comparative investigation of the absorption of monoenergetic positrons

and electrons in copper and cadmium

Periodical

Zhur. eksp. i teor. fiz., 26, pp 270-274, Mir 1954

Abstract

: The authors present the results of comparative measurements of the absorption of monoenergetic positrons and electrons of equal energies in copper and cadmium. They show that the observed difference in absorption of positrons and electrons of equal energy increases with increase of the ordering number of the absorber. It is confirmed that positrons are absorbed in heavy substances noticeably more weakly than electrons. Ten references, 8 Western and 2 USSR (K. A. Baskova and B. S. Dzhelepov, DAN SSSR, 77, 1001, 1951; I. P. Selinov, Atomnyye yadra i yadernyye prevrashcheniya (Atomic nuclei and nuclear conver-

sions), GITTL, Moscow-Leningrad, 1951).

Institution : Leningrad State University

Submitted

April 16, 1953

FT EV

AUTHOR TITLE

GORBACHEV, V.M., ZAMYATNYN, Yu, S.,

-89-8-3/26 m

The Intensity Determination of Very Short Pulses of Fast Neutrons (Opredeleniye intensivnosti kratkovremennykh impulsov bystrykh neytronov. Russiar)

PERIODICAL

Atomnaya Energiya, 1957, Vol 3, Nr 8, pp 101 - 105 (U.S.S.R.)

ABSTRACT

With the so-called "contraction method", the neutron yield is measured by the y-quanta, which form on the occasion of the capture of neutrons decelerated in paraffin.

On the Photocathode of a multiplier there is a crystal with @ of 35 mm H = 20 mm; which is surrounded by a cadmium hood on its upper part. The entire head of the multiplier is surrounded by a paraffin cylinder (0 = 130 mm, H = 150 mm), which, in turn, is enclosed by a thin lead

By this arrangement time measurements of 100 - 300 M s become necessary instead of the pulse times of 0,1 = 1,0 m s , because the average life of slow neutrons in paraffin amounts to only about 200 m s.

The pulses of the photomultiplier are led to an amplifier (<3.10 Hz) and from here to the cathode of the cathode ray oscillograph, the deviation of which on the screen gives a spiral-shaped image. By the pulse from the multiplier the deviation is interrupted, and the black spots

Card 1/2

- 89-8-3/26

The Intensity Determination of Very Short Pulses of Fast Neutrons

on the oscillogram then correspond to the number of 38000516030001-5

APPROVED FOR FIELEASE: 06/13/2000 CIA-RDP86-005138000516030001-5

Stilbs 1,00, naphtaline 1,16, NaI 2,60, CsI 4,12

If several of the systems described are connected in parallel, a sensitivity of 0,05 - 0,1 neutron per cm can be attained. (With 1 table, 4 illustrations, and 2 Slavic references).

**ASSOCIATION** PRESENTED BY SUBMITTED AVAILABLE

Not given

Library of Congress

Card 2/2

120-4-4/35

AUTHORS: Gorbachev, V.M. and Kazarinova, M.I.

fitte: Detection of Disintegration Fragmen

Detection of Disintegration Fragments and Charged Particles by Thin Scintillation Films (Registratsiya oskolkov deleniya i tyazhelykh zaryazhennykh chastits tonkimi stsintillir-

uyushchimi plenkami)

mouse, a lat.

PERIODICAL: Pribory i Tekhnika Eksperimenta, 1957, No.4, pp. 20 - 24 (USSR).

ABSTRACT: The aim of the present work was to design a fast detector of disintegration fragments based on an application of thin scintillation films. The following scintillators were used: terphenyl anthracene, 2.5 diphenyloxazol in various concentrations in polystyrene. The obtained solution was transferred by means of a pipette on to a glass surface and was then dried at room temperature for a number of hours. After the drying process, the film was easily detachable from the glass. To accelerate the drying process, the glass can be warmed up to 50 - 60°C. A layer of U<sup>225</sup> (1 mg/cm<sup>2</sup>) placed in a beam of thermal neutrons was used as the source of disintegration fragments. The layer was placed in a vacuum chamber at a distance of 5 cm from the scintillation film. All the measurements were carried out using a photomultiplier collecting 100% of the Cardl/2 photoelectrons. Pulses from the photomultipler were fed into

Detection of Disintegration Fragments and Charged Particles by Thin.

an amplifier, integral discriminator and then to a counting device.

Detectors based on thin scintillation films have a resolving time of the order of 3 x 10-9 sec. and can be used in fast coincidence schemes. It is found possible to detect disintegration fragments on a high alpha background. The efficiency of the detector for disintegration fragments and alpha particles is 100%. Their sensitivity to gamma rays and fast neutrons is low. Thin scintillation films with a deposited layer of Li<sup>6</sup>, U<sup>235</sup> can be used as fast detectors of thermal neutrons. The problem was suggested by Yu. S. Zamyatnin. There are 4 figures, 1 table and 8 references, 2 of which are Slavic.

SUBMITTED: March 7, 1957.

AVAILABLE: Library of Congress

Uard 2/2

	GONDALLA	
AUTECRS:	Gorbachev, V. E., Poretskiy, L. B.	89-2-18/35
TITLE:	Inclastic Cross-Section of Some Light Elements for Neutrons (Secheniya neuprugogo vznimodeystviya neytenergiyey 14 Mev s nekotorymi legkimi elementami).	TA trans
PERIODICAL:	Atomnaya Increiya, 1950 . Hr 2, pp. 191-192	(บรรล)
ABSTRACT:	The following inelastic scattering cross sections and for 14 MeV neutrons:	vere measur-
	Li6 0,66 ± 0,05 barn	
	Li <sup>7</sup> 0,52 ± 0,06 barn	
	Be <sup>9</sup> 0,55 ± 0,04 barn	
	B 0,74 ± 0,07 barn	
 Card 1/1	The authors express their thanks to Ku. S. Zamyatni interest in their work. Their are 1 table and 4 ref 2 of which are Slavic.  Jeptember 30, 1957  Library of Jongress  1. Lithium 6 fission-Measurement 2. Lithium 7 fission-Measurement 4. Boron fission-Measurement 5. Carbon fission-Measurement 6. Neutrons-Scattering:	erences,

9.4160

S/120/60/000/01/019/051

AUTHORS:

Gorbachev, V.M., Usenko, L.D. and Uvarov, N.A.

TITLE:

Measurement of the Transit Time of the Electrons in

Photomultipliers 25

PERIODICAL: Pribory i tekhnika eksperimenta, 1960, Nr 1,

pp 69 - 73 (USSR)

ABSTRACT:

The transit time of the electrons in photomultipliers of several types was measured by the "electron-current control" method which was devised by the authors and the results were compared with the measurements obtained by the spark method (Ref 2). The current-control method permits application of a fixed light source and is based on the following principle. When the cathode of the multiplier is illuminated, a current is produced in the tube. However, if a sufficient negative voltage is applied to the diaphragm of the system the electrons can be "held" between the cathode and the diaphragm so that the tube produces no current. If a positive pulse is then applied to the diaphragm, the normal operating voltage between the electrodes of the system is restored

Card1/5

5/120/60/000/01/019/051

Measurement of the Transit Time of the Electrons in Photomultipliers

and an output pulse is obtained. The time interval from the instant of the application of the control pulse to the diaphragm to the instant of the appearance of the output pulse permits the determination of the transit time to

of the electrons. The measurement circuit based on the above principle is shown in Figure 3. The light source is situated in the vicinity of the photo cathode. Normally, the diaphragm is at a negative potential of about 100 V with respect to the cathode. The thyratron (the second tube in Figure 3) is triggered by a pulse generator and produces a pulse which is applied to the diaphragm. Simultaneously, a pulse is applied directly to the plates of a double-beam oscilloscope. The pulse from the collector of the photomultiplier is amplified and is registered by the second beam of the oscillograph. The amplifier employed in the measurements had a rise time of 3 x 10 sec and and output amplitude of 60 V. The rise time of the pulse applied to the diaphragm of the tube under test was

Card2/5

(5-10) x 10<sup>-9</sup> sec. The amplitude of the control pulse was

# S/120/60/000/01/019/051

Measurement of the Transit Time of the Electrons in Photomultipliers

variable. The measurement of the taby the spark method was carried out by the circuit shown in Figure 4. A spark gap discharging the capacitor C (see Figure 4) was used as the light source. The electrical pulse produced by the condenser discharge was used as the trigger pulse of the oscillograph and was also applied to the deflection plates of the oscillograph through a delay line. The light produced by the spark resulted in an cutput pulse at the collector of the multiplier and this was applied to the second pair of the deflection plates. The transit time as a function of the supply voltage was investigated

for the photomultipliers with various dynode systems. The following photomultipliers were used:

1) FEU-1V with a circular dynode system;

2) FEU-12 with "shutter"-type dynode system;

FEU-19M with a linear dynode system;

4) FEU-33 with a linear dynode system and auxiliary electrodes.

Card3/5

S/120/60/000/01/019/051
Measurement of the Transit Time of the Electrons in Photomultipliers

In each case the transit time was measured by both the above methods. The results obtained by those methods are in close agreement, as can be seen from Figure 7, which gives the transit time as a function of the supply voltage. The transit times of all the four photomultipliers are compared in this figure. The overall error of the measurements does not exceed (4-5) x 10 sec. It was found that the transit time as the function of the operating voltage could be expressed by:

 $t_{\overline{d}}^{-1} = (a \sqrt{V} + b)10^6 \text{ sec}^{-1}$  (2)

where V is the operating voltage and
a and b are the constant coefficients.

The validity of this formula is corroborated by the straight line of Figure 8, where 1/t is plotted as a function of VV. The authors

as a function of  $\sqrt{V}$ . The authors express their gratitude to Yu.S. Zamyathin for his constant interest in this work, Yu.A. Barashkov for participating in the

Card4/5

S/120/60/000/01/019/051

Measurement of the Transit Time of the Electrons in Photomultipliers initial stages of the investigation and V.N. Malyshkin and V.A. Skachkov for their help in the measurements. Which are English and 7 Soviet.

SUBMITTED: November 26, 1958

Card 5/5

24.6500,24.6510 SOV/89-8-2-11/30

Kazarinova, M. I., Zamyatnin, Yu. S., Gorbachev, V. M. **AUTHORS:** 

2.5 and 14.6 mev Neutron Cross Sections of Th<sup>230</sup>. TITLE:

Pu<sup>240</sup>. Pu<sup>241</sup>, and Am<sup>241</sup> Fission. Letter to the Editor

Atomnaya energiya, 1960, Vol 8, Nr 2, pp 139-141 (USSR) PERIODICAL:

ABSTRACT: Following recent fission cross-section measurements by fast neutrons, various researchers tried to establish an empirical relation between the relative fission

probability  $f = \frac{\sigma f}{\sigma c}$  and parameter  $\frac{Z^2}{A}$ . Nevertheless,

the functional relation between f and the mass number A (for a fixed atomic number Z) was investigated in some detail only for the case of uranium, and the relation between f and Z was not clear at all, except that f rises quite rapidly with increasing Z. To study closer this latter problem and to get a more precise f(A) relationship,

the authors exposed  $\text{Th}^{230}$ ,  $\text{Pu}^{240}$ ,  $\text{Fu}^{241}$ , and  $\text{Am}^{241}$ Card 1/11

2.5 and 14.6 mev Neutron Cross Sections of Th  $^{230}$ , Pu  $^{240}$ , Pu  $^{241}$ , and Am  $^{241}$  Fission. Letter to the Editor

77246 \$0V/89-8-2-11/30

2.5 and 14.6 mev neutrons originating from deuterium and tritium targets bombarded by 150-200 kev deuterons. The registration of events took place by means of a fission chamber with electron collection. Isotope content of Th and Am was determined mass-spectrometrically, and that of  $Pu^{239}$  in a layer of  $Pu^{240}$  by "weighing" it in the flux of thermal neutrons. The content of  $Am^{241}$  formed in a  $Pu^{241}$  layer resulting from its G disintegration was determined from the known accumulation time. The amount of  $Th^{230}$ ,  $Pu^{240}$ ,

Am $^{241}$  isotopes in layers under investigation was determined by counting  $\alpha$  -particles emitted by those isotopes. The Pu $^{240}$  content in the layer was also determined from the number of spontaneous fissions, and the amount of Pu $^{241}$  by counting  $\alpha$  -particles from

Card 2/11

 $Am^{241}$ . The  $Pu^{241}$  layer was also "weighed" in the thermal neutron flux, taking 1,025 + 10 barn for the

2.5 and 14.6 mev Neutron Cross Sections of Th 230, Pu 241, and Am 241 Fission. Letter to the Editor

77246 SOV/89-8-2-11/30

value of the Pu<sup>241</sup> thermal neutron fission cross section. For Pu<sup>240</sup> and Pu<sup>241</sup> various methods used agreed within experimental errors. Table 1 contains the results obtained together with the half-lives used by the authors during calculations.

Table 1. The characteristics of layers of isotopes studied.

Isotopa	Effective weight,	Half-life,	I ratopic composition
Th <sup>240</sup> Pu <sup>240</sup> Am <sup>240</sup>	(1870±40) (345±15) (50,6±1,6) (89±2)	8.10 <sup>1</sup> [2] 6,6.10 <sup>3</sup> [4]; T1/2 grant;= 1,2.10 <sup>11</sup> [4] 13,2 [3] 458±0.5 [3]	(35±1)% Th <sup>230</sup> ; (65±1)% Th <sup>232</sup> 15% Pu <sup>230</sup> ; 85% Pu <sup>240</sup> 12% Am <sup>241</sup> ; 88% Pu <sup>241</sup> 100% Am <sup>241</sup>

Card 3/11

2.5 and 14.6 mev Neutron Cross Sections of Th 230, Pu 241, and Am 241 Fission. Letter to the Editor

77246 50V/89-8-2-11/30

The 14.6 mev neutron cross section was determined by absolute methods. Neutron flux was obtained counting a particles from T(d, n)He reaction, while the background of scattered neutrons was determined performing measurements at different places between the chamber and the sources. The 2.5 mev measurements could not be made completely exact, because of the small counting rate. Relative measurements utilized twin fission chambers which contained at the same time a material of known fission cross section for neutrons of given energy. Cross section of Th<sup>230</sup> was taken relative to that of Th<sup>232</sup>, and those of Pu<sup>240</sup>, Pu<sup>241</sup>, and Am<sup>241</sup> relative to the U<sup>238</sup> fission cross section. For control purposes Am<sup>241</sup> was compared to U<sup>235</sup>. The 2.5 mev cross sections were also compared to those at 14.6 mev by utilizing the relative fission cross sections of materials used in the neutron beam monitors:

Card 4/11

2.5 and 14.6 mev Neutron Cross Sections of Th<sup>230</sup>, Pu<sup>240</sup>, Pu<sup>241</sup>, and Am<sup>241</sup> Fission. Letter to the Editor

77246 SOV/89-8-2-11/30

0.13 and 0.34 barn for Th<sup>235</sup> and 0.58 and 1.1 barn for U<sup>238</sup> detectors at the respective energies of 2.5 and 14.6 mev. Cross section values are from papers of Hughes and Schwartz (see reference at end of Abstract). All 2.5 mev values agreed on the limit of errors, and results are given in Table 2.

Table 2. 2.5 and 14.6 mev neutron induced fission cross sections  $\sigma_{\rm f}$  of isotopes, barn.

	2,5 mev					
Isotopes	Data from presunt experiments	Data by other authors	Data from present experiments	Data by other authors	σ <sub>f1</sub>	
This Pure Pure Pure Pure Pure Pure Pure Pure	0,41±0,08 1,6±0,3 1,2±0,2 1,95±0,2	1,5±0,15 [A] 1,35 [1]	0,72±0,15 2,4±0,3 2,05±0,1 2,95±0,15	2.6 ±0.2* [A] 2.35±0,15 [B]	0,90 2,55 2,15 2,85	

Card 5/11 \* Fiesion cross sections due to neutrons of 15 meu energy.

2.5 and 14.6 mev Neutron Cross Sections of  ${\rm Th}^{230}$ ,  ${\rm Pu}^{240}$ ,  ${\rm Pu}^{241}$ , and  ${\rm Am}^{241}$  Fission. Letter to the Editor

77246 SOV/89-8-2-11/30

In Table 2, Reference A is: V. G. Nesterov, G. N. Smirenkin, Zh. eksperim. I teor. fiz., 35, 522 (1958); and Reference B is: A. N. Protopopov, Yu. A. Selitskiy, Atomnaya energiya, 6, Nr 1, 67 (1959). The authors paid special attention to possible mistakes in the case of Am<sup>241</sup>, where the results disagreed with results of other authors, but they did not find any appreciable error. Evaluation of Results. The 2.5 mev neutron results verify the decrease of the fission cross section and the ratio f with the increase of A (for fixed Z). The explanation of this is connected to the decrease of neutron binding energy, and to the related rise in neutron evaporation probability. From this standpoint the practically negligible influence of pairing of the fissionable isotopes on f(A) seems slightly strange, since it affects the binding energy Ep. The authors found also that f is not a single-valued function of Z<sup>2</sup>/A since, as seen on Fig. A, each element has a particular f-curve.

Card 6/11

2.5 and 14.6 mev Neutron Cross Sections of Th 230 Pu 240, Pu 241, and Am 241 Fission. Letter to the Editor 77246 SOV/89-8-2-11/30 Fig. "A". Relative probability of nuclear fission f versus the parameter 0,6  $z^2/A$ . o, neutron-induced fission; x, photofission (points o and x taken from: Yu. S. Zamyatnin, The Physics 02 of Nuclear Fission, Supplement Nr 1 to the periodical Atomnaya energiya; M. Atomizdat, 1957, p 27, corrected by taking into account newly published fission cross-section data); data from the present investigation. Dashed line shows approximate  $f(Z^2/A)$  relationships for various values of the binding energy. Card 7/11

2.5 and 14.6 mev Neutron Cross Sections of Th<sup>230</sup>, Pu<sup>240</sup>, Pu<sup>241</sup>, and Am<sup>241</sup> Fission. Letter to the Editor

77246 SOV/89-8-2-11/30

Trying to fit all the curves together using  $Z^n/A$ , at  $n \neq 2$ , dependence, it became clear to the authors that fitting curves of different groups of elements would require different exponents of n. To fit Th, Pa, and U, n should be 1.7; to fit U, Np, and Pu, n should be 1.2; to fit  $Am^{242}$  with the Pu curve, n = 0.8. The authors note that the weaker dependence of f from Z is apparently connected to the fact that, in addition to the  $Z^2/A$  parameter, f is determined also by the probability of neutron evaporation, which again depends on the binding energy of neutrons. If one takes into account that for a given  $Z^2/A$  and the same pairing, an increase in Z is connected to a decrease of binding energy (see Table 3) and, consequently, with an increase of evaporation probability, it becomes understandable why one observes reduced relative fission probability of isotopes of elements with larger Z.

Card 8/11

2.5 and 14.6 mev Neutron Cross Sections of  ${\rm Th}^{230}$ ,  ${\rm Pu}^{240}$ ,  ${\rm Pu}^{241}$ , and  ${\rm Am}^{241}$  Fission. Letter to the Editor

77246 SOV/89-8-2-11/30

Table 3. Neutron binding energy in nuclei versus  $z = \frac{z^2}{A}$ , in mev.

			Z.	2/A			
35,	25	35	5	36	.2	36	, 5
f.zm 1,0,522 (1,1,530	6,7 6,3 5,8	. <u>С</u> зач Бидээ Бидээ ДРазн	7,0 6,6 6,0	Nh <sub>500</sub>	6,7 6,3 —	1;292 Np237 Pu212	7,1 6,7 6,2

It follows that by observing nuclei which have equal values of  $E_{\rm B}$  one can exclude the effect of neutron evaporation and obtain an  $f(Z^2/A)$  depending on the fission process only (see Fig. A). The 14.6 mev

Card 9/11

2.5 and 14.6 mev Neutron Cross Sections of Th 230, Pu 240, Pu 241, and Am 241 Fission. Letter to the Editor

77246 sov/89-8-2-11/30

fission cross sections may be compared to the expected fission cross-section values on the second plateau using

 $\sigma_{f_1} = \sigma_{f_0} \left[ 1 + \frac{(1 - f_0) f_{-1}}{f_0} \right]$  (1)

Computed values  $\sigma_f$  are tabulated in Table 2. Allowing during such a comparison the possibility of occurrence of a new channel leading to fission of the nucleus reaction (n, 2nf) whose energy threshold lies slightly below 14 mev, and allowing the possibility of a slant of the plateau due to a difference in the fission  $\Gamma_f$  and neutron  $\Gamma_n$  width increase with energy, the agreement may be considered as good. A larger discrepancy in case of Th 230 can be explained by lower accuracy of its fission cross-section determination. B. V. Kurchatov, M. I. Pevzner, G. N. Yakovlev, E. P. Dergunov,

Card 10/11

2.5 and 14.6 mev Neutron Cross Sections of  ${\rm Th}^{230}$ ,  ${\rm Pu}^{240}$ ,  ${\rm Pu}^{241}$ , and  ${\rm Am}^{241}$  Fission. Letter to the Editor

77246 sov/89-8-2-11/30

and S. K. Sokolova supplied the isotopes and prepared the layers; I. A. Tishchenko and G. M. Kukavadze performed the mass-spectrometric analysis; Yu. A. Vasil'yev and E. I. Sirotin performed measurements on the accelerating tube; and M. S. Shvetsov, Yu. A. Barashkov, and E. D. Beregovenko helped take measurements. There is 1 figure; 3 tables, and 8 references, 3 Soviet, 1 U.K., 4 U.S. The U.K. and U.S. references are: J. Huizenga, Phys. Rev., 109, 484 (1958); D. Hughes, R. Schwartz, Neutron Cross Sections, New York, BNL (1958); D. Hall, T. Markin, J. Inorg. and Nucl. Chem., 4, 137 (1957); R. Leachman, Report Nr 2467 presented by U.S.A. at the Second United Nations International Conference for the Peaceful Uses of Atomic Energy (Geneva 1958); M. Studier, J. Huizenega, Phys. Rev., 96, 545 (1954).

SUBMITTED: Card 11/11

August 8, 1959

27705 \$/120/61/000/003/017/041 E192/E382

9,4150 (1138)

AUTHORS: Gorbachev, V.M., Uvarov, N.A. and Usenko, L.D.

TITLE: Raster Time Base Without Dead Time

PERIODICAL: Pribory i tekhnika eksperimenta, 1961, No. 3, pp. 93 - 95

TEXT: Physical processes of comparatively long duration can be observed by means of a cathode-ray tube provided with a scanning (or raster) time-base system which deflects the ray both vertically and horizontally. In general, the horizontal or line deflection system is based on a symmetrical triangular waveform generator. This system suffers from the disadvantage that the end of the forward line and the start of the return line tend to overlap, so a portion of the line is lost. On the other hand, if the return line is suppressed, the system possesses a dead time during which the signal cannot be observed. A time-base system free from the above disadvantages was therefore devised. This is based on a double-beam cathode-ray tube (Ref. 1 - the authors - Authors Certificate No.127324, 4.1.1960). Continuous observation of the signal in the system Card 1/4

27705 S/120/61/000/003/017/041 E192/E382

Raster Time Base Without Dead Time E192/E382

Card 2/4

is ensured by applying the investigated signal successively to one or the other beam of the tube. The investigated signal is applied to both the deflection plates simultaneously but one of the beams is suppressed while the other is operative. A detailed description of the time-base system is given. The driver for the line time-base is in the form of a symmetrical multivibrator operating at a frequency of 1 Mc/s. This is followed by forming or shaping stages, which produce sawtooth pulses having a good linearity over their operating range. These pulses are amplified to about 400 V and are then applied to the horizontal deflection plates of a two-beam cathode-ray tube (type 185047 (181047)). During their flyback, each of the rays is suppressed while in the forward direction they form a linear scanning system where the length of a line is equal to the oscillation period of the multivibrator. The frame-scanning deflection is produced by a triggered linear voltage oscillator and the flyback suppression is effected by employing pulses from the driver multivibrator. The time difference between the end of one line and the start of the

Raster Time Base Without Dead Time

5/120/61/000/003/017/041 E192/E382

next is determined by the rise time of the blanking pulses and can be very short. The overlap time, which is due to finite rise time of the pulses, can be reduced by increasing the steepness of the pulse fronts. It is possible for this purpose, to shape the pulses by means of transmission lines or to employ secondary emission pentodes. The authors improved the shape of the pulses by diode-limiting of the multivibrator pulses so that the overlap time between the rays was 6 x 10 sec. In the the overlap time between the rays was 6 x 10 experimental system used by the authors, the time base operated with three fixed lengths: 100, 500 and 1 000 µs, corresponding to 3, 10 and 20 µs line duration, respectively. The oscilloscope based on the above raster time base and the tube, type 18Lo47, had a writing speed of up to 0.015 μs/mm, the number of lines being 100 and the length of line 100 mm. The maximum duration of the investigated process was 2 000 µs. An oscillogram illustrating the recording of the pulses of a scintillation counter is shown in Fig. 2. The authors express their gratitude to Yu.S. Zamyatnin for his interest in this work.

Card 3/4

5/120/61/000/003/017/041

Raster Time Base Without Dead Time E192/E382

There are 2 figures and 2 Soviet references.

August 4, 1960 SUBMITTED:

Fig. 2:



Card 4/4

0 CIA-RB**P86-00513F000**516030001-5 APPROVED FOR RELEASE: 06/13/2000 E192/E382

9,3280

Predein, B.A., Gorbachev, V.M., Sem'in, G.N., V.A.
Uvarov, N.A., Filimonchev, M.I. and Shevtsov, V.A.

AUTHORS:

TITLE:

Pribory i tokhnika eksperimenta, no. 3, 1962, A wideband pulse amplifier

PERIODICAL:

The amplifier consists of three stages of distributed amplification, each consisting of 4 tubes. The output and middle stages are based on secondary emission tubes, type 6 [217] (6V1P). It is possible by employing these tubes) to obtain a symmetrical output and high output voltages. However, since the tubes, nonlinear at small signals, the input stage is based on tubes, type 6 227 (67h22P) whose input canacitance is almost identical type 6) 22 [ (6Zh22P), whose input capacitance is almost identical with that of 6VIP, so that identical lines could be employed in all grid circuits. The distributed loads of the amplifier stages are in the form of lumped delay lines based on m-derived filters, the wave impedance of the anode, dynode and grid lines being 1500. The bandwidth of the amplifier is about 150 Mc/s per stage, which

Card 1/2

A wideband pulse amplifier

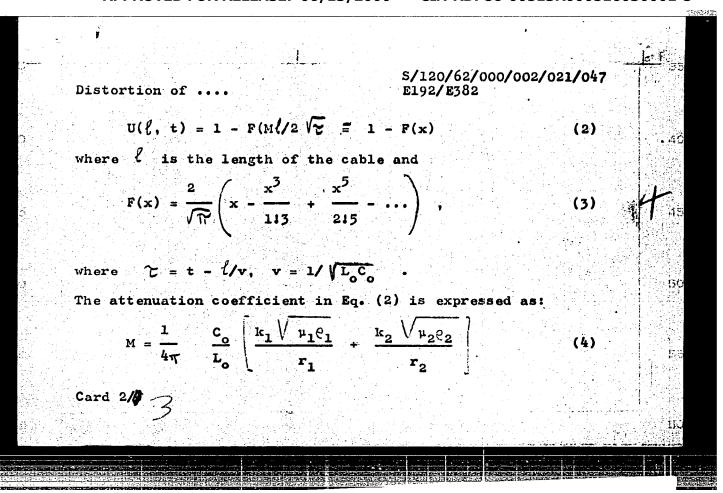
S/120/62/000/003/019/048 E192/E382

corresponds to a rise time of about 3 x 10<sup>-9</sup> sec. The output of the amplifier is applied to the plates of an oscilloscope by means of a cable, type PK-50 (RK-50), about 1 m long. The amplification of the system at the anode output is about 240 and at the dynode it is about 160, the symmetrical output giving a gain of 400. The maximum amplifier output at the anode is 140 V and at the dynode-30 V. The longest pulses applied should not exceed 3 µs in order to avoid the fatigue effects in the secondary emission tubes. The authors express their gratitude to I.M. Cherednichenko for discussing the results and to A.V. Filatov and B.F. Krest'yaninov for preparing the experimental models of the device. There are 3 figures.

SUBMITTED: December 2, 1961

Card 2/2

of 3 000 Mc/s. Analytically, the response to a unit supposed of 3 000 Mc/s. Analytically, the response to a unit supposed of 3 000 Mc/s. Analytically, the response to a unit supposed of 3 000 Mc/s. Analytically, the response to a unit supposed of 3 000 Mc/s. Analytically, the response to a unit supposed of 3 000 Mc/s. Analytically, the response to a unit supposed of 3 000 Mc/s. Analytically, the response to a unit supposed of 3 000 Mc/s. Analytically, the response to a unit supposed of 3 000 Mc/s.		37796	14 . 4.3
AUTHORS: Gorbachev, V.M., Ovarov,  Distortion of nanosecond pulses during their transmission by cables  PERIODICAL: Pribory i tekhnika eksperimenta, no. 2, 1962,  92 - 94  TEXT: The problem was investigated experimentally and analytically. Experimentally, the study of the transient analytically. Experimentally, the study of the transient response of the cables was carried out directly by taking the response of the pulses at the output of a section of a oscillograms of the pulses at the output of a section of a cable. A rectangular pulse with an amplitude of 100 V, a cable. A rectangular pulse with an amplitude of 100 V, a cable of 50 x 10 <sup>-9</sup> sec and a rise time of / 1 x 10 <sup>-9</sup> sec duration of 50 x 10 <sup>-9</sup> sec and a rise time of / 1 x 10 <sup>-9</sup> sec duration of 50 x 10 <sup>-9</sup> sec and a rise time of / 1 x 10 <sup>-9</sup> sec duration of 50 x 10 <sup>-9</sup> sec and a rise time of / 1 x 10 <sup>-9</sup> sec duration of 50 x 10 <sup>-9</sup> sec and a rise time of / 1 x 10 <sup>-9</sup> sec duration of 50 x 10 <sup>-9</sup> sec and a rise time of / 1 x 10 <sup>-9</sup> sec duration of 50 x 10 <sup>-9</sup> sec and a rise time of / 1 x 10 <sup>-9</sup> sec duration of 50 x 10 <sup>-9</sup> sec and a rise time of / 1 x 10 <sup>-9</sup> sec duration of 50 x 10 <sup>-9</sup> sec and a rise time of / 1 x 10 <sup>-9</sup> sec duration of 50 x 10 <sup>-9</sup> sec and a rise time of / 1 x 10 <sup>-9</sup> sec duration of 50 x 10 <sup>-9</sup> sec and a rise time of / 1 x 10 <sup>-9</sup> sec duration of 50 x 10 <sup>-9</sup> sec and a rise time of / 1 x 10 <sup>-9</sup> sec duration of 50 x 10 <sup>-9</sup> sec and a rise time of / 1 x 10 <sup>-9</sup> sec duration of 50 x 10 <sup>-9</sup> sec and a rise time of / 1 x 10 <sup>-9</sup> sec duration of 50 x 10 <sup>-9</sup> sec and a rise time of / 1 x 10 <sup>-9</sup> sec and a rise time of / 1 x 10 <sup>-9</sup> sec and a rise time of / 1 x 10 <sup>-9</sup> sec and a rise time of / 1 x 10 <sup>-9</sup> sec and a rise time of / 1 x 10 <sup>-9</sup> sec and a rise time of / 1 x 10 <sup>-9</sup> sec and a rise time of / 1 x 10 <sup>-9</sup> sec and a rise time of / 1 x 10 <sup>-9</sup> sec and a rise time of / 1 x 10 <sup>-9</sup> sec and a rise time of / 1 x 10 <sup>-9</sup> sec and a rise time of / 1 x 10 <sup>-9</sup> sec and a rise time of / 1 x 10 <sup>-9</sup> sec and a rise time of / 1 x 10 <sup>-9</sup> sec and a rise time of / 1 x 10		S/120/62/000/002/02 <b>1/047</b> E192/E382	5
periodical: Pribory i tekhnika eksperimenta, no. 2, 1962, 92 - 94  Text: The problem was investigated experimentally and analytically. Experimentally, the study of the transient analytically. Experimentally, the study of the transient response of the cables was carried out directly by taking the response of the pulses at the output of a section of a oscillograms of the pulses at the output of a section of a cable. A rectangular pulse with an amplitude of 100 V, a cable. A rectangular pulse with an amplitude of 100 V, a cable. A rectangular pulse with an amplitude of 100 V, a cable to a line 100 m long and the output pulses were was applied to a line 100 m long and the output pulses were vas applied to a line 100 m long and the output pulses were of 3 000 Mc/s. Analytically, the response to a unit step of a coaxial cable terminated with a matched load can be expressed as:		rov, N.A. and Usenko, L.D.	10
TEXT: The problem was investigated experimentally and analytically. Experimentally, the study of the transient analytically. Experimentally, the study of the transient response of the cables was carried out directly by taking the oscillograms of the pulses at the output of a section of a cable. A rectangular pulse with an amplitude of 100 V, a cable. A rectangular pulse with an amplitude of 100 V, a cable of 50 x 10 <sup>-9</sup> sec and a rise time of / 1 x 10 <sup>-9</sup> sec duration of 50 x 10 <sup>-9</sup> sec and a rise time of / 1 x 10 <sup>-9</sup> sec duration of 50 x 10 <sup>-9</sup> sec and a rise time of / 1 x 10 <sup>-9</sup> sec duration of 50 x 10 <sup>-9</sup> sec and a rise time of / 1 x 10 <sup>-9</sup> sec duration of 50 x 10 <sup>-9</sup> sec and a rise time of / 1 x 10 <sup>-9</sup> sec duration of 50 x 10 <sup>-9</sup> sec and a rise time of / 1 x 10 <sup>-9</sup> sec duration of 50 x 10 <sup>-9</sup> sec and a rise time of / 1 x 10 <sup>-9</sup> sec duration of 50 x 10 <sup>-9</sup> sec and a rise time of / 1 x 10 <sup>-9</sup> sec duration of 50 x 10 <sup>-9</sup> sec and a rise time of / 1 x 10 <sup>-9</sup> sec duration of 50 x 10 <sup>-9</sup> sec and a rise time of / 1 x 10 <sup>-9</sup> sec duration of 50 x 10 <sup>-9</sup> sec and a rise time of / 1 x 10 <sup>-9</sup> sec duration of 50 x 10 <sup>-9</sup> sec and a rise time of / 1 x 10 <sup>-9</sup> sec duration of 50 x 10 <sup>-9</sup> sec and a rise time of / 1 x 10 <sup>-9</sup> sec duration of 50 x 10 <sup>-9</sup> sec and a rise time of / 1 x 10 <sup>-9</sup> sec duration of 50 x 10 <sup>-9</sup> sec and a rise time of / 1 x 10 <sup>-9</sup> sec duration of 50 x 10 <sup>-9</sup> sec and a rise time of / 1 x 10 <sup>-9</sup> sec duration of 50 x 10 <sup>-9</sup> sec and a rise time of / 1 x 10 <sup>-9</sup> sec duration of 50 x 10 <sup>-9</sup> sec and a rise time of / 1 x 10 <sup>-9</sup> sec duration of 50 x 10 <sup>-9</sup> sec and a rise time of / 1 x 10 <sup>-9</sup> sec duration of 50 x 10 <sup>-9</sup> sec duration of 50 x 10 <sup>-9</sup> sec and a rise time of / 1 x 10 <sup>-9</sup> sec duration of 50 x 10 <sup>-9</sup> sec du			
그리트 그들은 전 경영에 그 그리고 있는데 그만 하고 있다. 그리고 하는데 그는 그리고 있는데 그는 그는 그는 그를 가지 않았다. 선물 사용	TEXT: The problem was invertantly analytically. Experimentally, response of the cables was carroscillograms of the pulses at to cable. A rectangular pulse with duration of 50 x 10 <sup>-9</sup> sec and was produced by a generator, to was applied to a line 100 m leading applied to a line 100 m le	the study of the transient ried out directly by taking the the output of a section of a the an amplitude of 100 V, a a rise time of / 1 x 10 sec ype FKN-4A (GKI-4A). This ong and the output pulses were ype D(-6 (OS-6) having a bandwidth a punit step of a	70
			2



5/120/62/000/002/021/047 E192/E382 Distortion of .. are the inductance and capacitance of the and cable per unit length, μ is the permeability, is the resistance of the cable per unit length, and is the radius of the conductor. The index "1" in Eq. (4) refers to the parameters of the internal conductor, while the index "2" indicates the parameters of the external conductor. The twist factor k in Eq. (4) takes into account the change in the resistance of the internal conductor due to its stranded form; the coefficient k2 braiding factor, which takes into account the increase in the resistance of the external conductor due to its braiding. The response of a 100-m cable calculated from Eq. (2) is illustrated in Fig. 3. Curves II and III correspond to two different types of cable, while the circles represent the experimental points; it is seen that the theory is in good agreement with experiment. There are 5 figures and 1 table. Card 3/

s/120/63/000/001/022/072 E140/E135

AUTHORS: Gorbachev, V.M., Korolev, V.N., and Uvarov, N.A.

TITLE: High-speed oscillograph using travelling-wave tubes

PERIODICAL: Pribory i tekhnika eksperimenta, no.1, 1963, 98-101

TEXT: A high-speed oscillograph using 13J10102 M (13L0102M) travelling-wave cathode-ray tubes is intended for photographic registration of two non-repeating high-speed processes. The vertical sensitivity is 2 V/mm, the timebase duration for deflection across the 100 mm screen varies between 0.1 and 3 μs; the delay in triggering the timebase is not more than

30 x 10<sup>-9</sup> sec.

There are 4 figures.

SUBMITTED: February 20, 1962

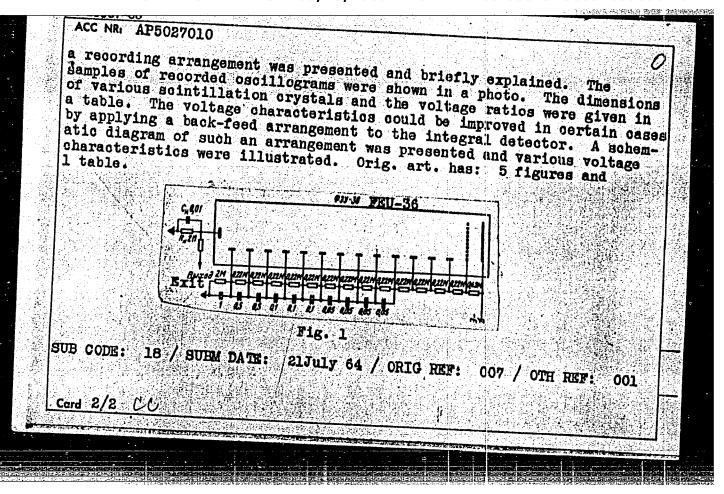
Card 1/1

High-speed eksp. 8	i escillograph on to no.1:98-101 Ja-F	raveling wave tubes. '63. (Oscillograph)	Prib. i	tekh. (MIRA 16:5)	
			e de la companya de l		
					\$

neutron	detector for a pulses. Prib.	1 tekh.eksp.	the intens	77-82	short S-0 465. 19:1)	
1. Subm	itted July 21,	1964.		(LITTUR	1911)	

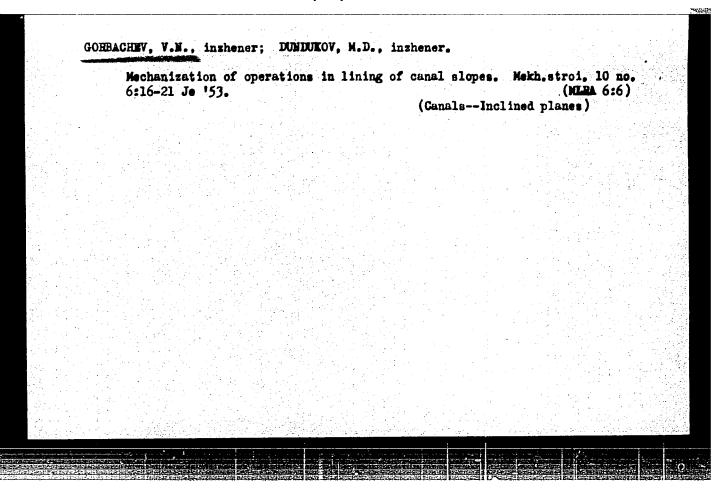
Wide-range i 82-85 S-0	ntensitometer. •65.	Prib. i tekhn	eksp. 10 no.5. (MIR	i: A 19:1)	
1. Submitted	July 22, 1964.		ing the second of the second o		

L 28037-66 EWA(h)/EWT(m) ACC NR. AP5027010 SOURCE CODE: UR/0120/65/000/005/0077/0082 AUTHOR: Gorbachev, V. M.; Uvarov, N. A. ORG: None Integral detector for the determination of the intensity of TITLE: short neutron pulses SOURCE: Pribory i tekhnika eksperimenta, no. 5, 1965, 77-82 TOPIC TAGS: neutron detection, scintillation counter, nuclear physics apparatus ABSTRACT: The use of integral scintillation counters with a delayed recording of neutrons is discussed. The counters were placed in paraffin wax to slow down the fast neutrons and then to capture them by paraffin hydrogen. The capture gamma rays were recorded by a scintillation counter. After reviewing various methods and devices, the use of integral method of counting (instead of a discrete one) was recommended. The FEU-36 integral detector diagrammatically shown in Fig. 1(Card 2/2) was described. Its counter range reached 105 counts and the neutron sensitivity was about 0.05 neutron per sq cm. The detector signals are recorded by a three-beam oscillographic tube. The two-beam tube of an 18L047 type could also be used. A detailed connection diagram of such UDC: 539.1.074.3 Card 1/2



EWT(m)/EWP(t)/ETI IJP(c) JD ACC NR: AP6015072 (A) SOURCE CODE: UR/0363/66/002/005/0886/0889 AUTHOR: Mikhaylov, V. A.; Popov, A. N.; Gorbachev, V. M.; Torgova, E. I. ORG: Institute of Inorganic Chemistry, SO, Academy of Sciences, SSSR (Institut neorganicheskoy khimii SO Akademii nauk SSSR) TITLE: Oxidation of PCl<sub>3</sub> microimpurity to POCl<sub>3</sub> in a methyltrichlorosilane medium SOURCE: AN SSSR. Izvestiya. Neorganicheskiye materialy, v. 2, no. 5, 1966, 886-889 TOPIC TAGS: phosphorus chloride, silane, chemical oxidation ABSTRACT: The oxidation of PCl3 in methyltrichlorosilane CH3SiCl3 (MTCS) was studied in connection with the necessity of thoroughly removing phosphorus impurity from MTCS when the latter is used for preparing semiconducting silicon carbide. The possibility of oxidizing microquantities of trivalent phosphorus was checked on PCl3 present in amounts of 1.3-2.6  $\times$  10<sup>-4</sup> wt % in MTCS, the P<sup>32</sup> radioisotope being used as the label. The oxidation of such small amounts of trivalent phosphorus was found to be inhibited by trace impurities. A fast and complete oxidation of PCl3 to POCl3 by atmospheric oxygen takes place when PCl3 is present in amounts greater than 0.1 Card 1/2 UDC: 546.18 + 546.287

vol %	in purified P	MTCS. However	, the intro	oduction of	>6×10 <sup>-4</sup> se	\$ Fa(1 -	100 00
microc ated n	quantities of with iron comm	PCl <sub>3</sub> into POC	l <sub>3</sub> in a med	dium of tec	bnical MTCS	of macro-	and
	Cl <sub>2</sub> or NO <sub>2</sub> .  DE: 07 <b>20</b> /SUB		m. z rikm	es and \$ f	EDIES.		
	12 H						



GORBACHEV, V. N.

ANDON'YMY, V.L.; BAUM, V.A.; BAUMGARTEN, N.K.; BEREZIN, V.D.; BIRYUKOV, I.K.; BIRYUKOV, S.M.; BLOKHIN, S.I.; BOROVOY, G.A.; HULEV, M.Z.; BURAKOV, N.A.; VERTSAYZER, B.A.; VOVK, G.M.; VORMAN, B.A.; VOSHCHININ, A.P.; GALAKTIONOV, V.D., kand. tekhn. nauk; GENKIN, Ye.M.; GIL'DENBLAT. Ya.D., kand. tekhn. nank; GINZBURG, M.M.; GLEBOV, P.S.; GODES, M.G.; COMBACHTY, V.M.: ORZHIB, B.V.; CHEKULOV, L.F., kand, s.-kh. nauk; GRODZENSKAYA, I. Ya.; DANILOV, A.G.; DMITRIYEV, I.G.; DMITRIYEKO, Yu.D.; DOBROKHOTOV, D.D.; DUBININ, L.G.; DUNDUKOV, N.D.; ZHOLIK, A.P.; ZHRKHVICH, D.K.; ZIMARHV, Ye.V.; ZIMASKOV, S.V.; ZUBRIK, K.M.; KARANOV, I.F.; KNYAZEV, S.W.; KOLMGAYEV, M.M.; KOMAREVSKIY, V.T.; KOSENKO, V.P.: KORENISTOV, D.V.: KOSTROV, I.N.: KOTLYARSKIY, D.M.: KRIVSKIY, N.W.; KUZNETSOV, A.Ya.; IAGAR'KOV, N.I.; IGALOV, V.G.; LIKHACHEV, V.P.: LOCUNOV, P.I.: MATSKEVICH, K.F.: MRL'NICHENKO. K.I.; MEMBLEVICH, I.R.; MIKHAYLOV, A.V., kand. tekhn. nauk; MUSIYEVA, R.W.; MATANSON, A.V.; MIKITIN, M.V.; OVES, I.S.; OGULINIK, G.R.; OSIPOV, A.D.; OSMER, N.A.; PHTHOV, V.I.; PHRYSHKIN, G.A., prof.; P'YANKOVA, Ye.V.; RAPOPORT, Ya.D.; REMIZOV, N.P.; ROZANOV, M.P., kand. biol. nauk; ROCHEGOV, A.G.; RUBINCHIK, A.M.; RYBCHEVSKIT, V.S.; SADCHIKOV, A.V.; SEMENTSOV, V.A.; SIDERKO, P.M.; SINYAVSKAYA, V.T.; SITAROVA, N.W.; SOSHOVIKOV, K.S.; STAVITSKIY, Ye.A.; STOLYAROV, B.P. [deceased]; SUDZILOVSKIY, A.O.; SYRTSOVA, Ye.D., kand, tekhn. nauk; FILIPPSKIY, V.P.; KHALTURIN, A.D.; TSISHEVSKIY, P.M.; CHERKASOV, M.I.; CHERNYSHEV, A.A.; CHUSOVITIN, M.A.; SHESTOPAL, A.O.; SHEKHTER, P.A.; SHISHKO, G.A.; SHCHERBINA, I.W.; MIGHL', F.F.; YAKOBSON, A.G.; YAKUBOV, P.A., ARKHANGEL'SKIY, (Continued on next card)

ANDON'YEV, V.L... (continued) Card 2. Ye.A., retsengent, red.; AKHUTIN, A.N., retsengent, red.; RAIASHOV, Tu.S., retsengent, red.; BARABANOV, V.A., retsengent, red.; BATURER, P.D., retsensent, red.; BORODIN, P.V., kand. tekhn. nauk, retsensent, red.; VALUTSKIY, I.I., kand. tekhn. nauk, retsensent, red.; GRIGOR YMV, V.M., kand. tekhn. nauk, retsensent, red.; GUBIN, M.F., retsenzent, red.; GUDAYEV, I.N., retsenzent, red.; TERMOLOV, A.I., kand. tekhn. nauk, retsenzent, red.; KARAULOV, B.F., retsenzent, red.; KRITSKIY, S.M., doktor tekhn. nauk, retsenzent, red.; LIKIN, V.V., retsenzent, red.; LUKIN, V.V., retsenzent, red.; LUSKIN, Z.D., retsenzent, red.; MATRIROSOV, A.Kh., retsenzent, red.; MENDELEYEV, D.M., retsenzent, red.; MENKEL!, M.F., doktor tekhn. nauk, retsenzent, red.; OBREZKOV, S.S., retsenzent, red.; PETRASHENI, P.N., retsenzent, red.; POLYAKOV, L.M., retsenzent, red.; RUMYAM!SEV, A.M., retsenzent, red.; RYABCHIKOV, Ye.I., retsenzent, red.; STASMIKOV, N.G., retsenment, red.; TAKANAYEV, P.F., retsenzent, red.; TARANOVSKIY, S.V., prof., doktor tekhn, nauk, retsenzent, red.; T.ZDEL', R.R., retsenzent, red.; FEDOROV, Ye.M., retsenzent, red.; SHEVYAKOV, M.H., retsenzent, red.; SHMAKOV, M.I., retsenzent, red.; ZHUK, S.Ya. [deceased], akademik, glavnyy red.; HUSSO, G.A., kand. tekhn. nauk, red.; FILIMONOV, N.A., red.; VOLKOV, L.N., red.; GRISHIM, M.M., red.; ZHURIN, V.D., prof., doktor tekhn. nauk, red.; KOSTROV, I.N., red.; LIKHACHEV, V.P., red.; MEDVEDEV, V.M., kand. tekhn. nauk, red.; MIKHAYLOV, A.V., kand. tekhn. nauk, red.; PETRIV, G.D., red.; RAZIN, N.V., red.; SCBOLEV, V.P., red.; FERINGER, B.P., red.; FREYGOFER, (Continued on next card)

ANDON'YEV, V.L... (continued) Card 3.

Ye.F., red.; TSYPIAKOV, V.D. [deceased], red.; KORABLINOV, P.N., tekhn. red.; KACHEROVSKIY, N.V., tekhn. red.; KACHEROVSKIY, N.V., tekhn. red.

[Volga-Don; technical account of the construction of the V.I. Ienin Volga-Don Mavigation Ganal, the TSimlyansk Hydroelectric Genter, and irrigation systems] Volgo-Don; tekhnicheskii otchet o stroitel-stve Volgo-Donskego sudokhodnogo kanala imeni V.I. Ienina, TSimlianskogo gidrouzla i orositel'nykh scoruzhenii, 1949-1952; v piati tomakh. Moskva, Gos. energ. izd-vo. Vol.1. [General structural descriptions] Obshchee opisanie scoruzhenii. Glav. red. S.IA. Zhuk. Red. toma M.M. Grishin. 1957. 319 p. Vol.2. [Organization of construction. Specialized operations in hydraulic engineering] Organizatsia stroitel'stva. Spetsial'nye gidrotekhnicheskie raboty.

ANDON'INV, V.L.... (continued) Card 4.

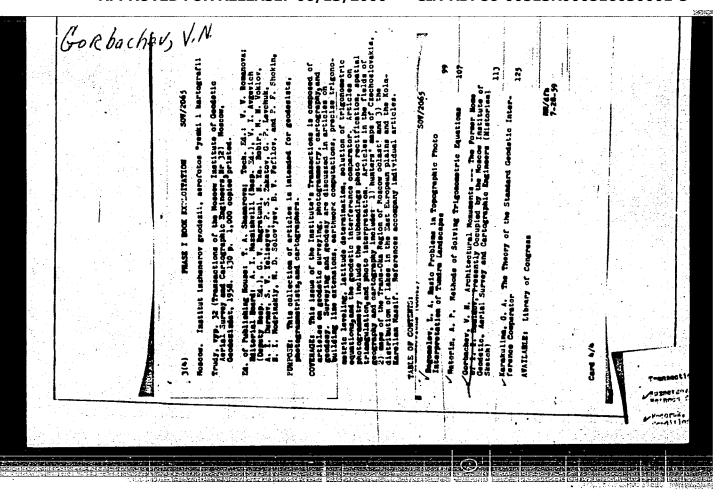
Glav. red. S.IA. Zhuk. Red. town I.N. Kostrov. 1958. 319 p.

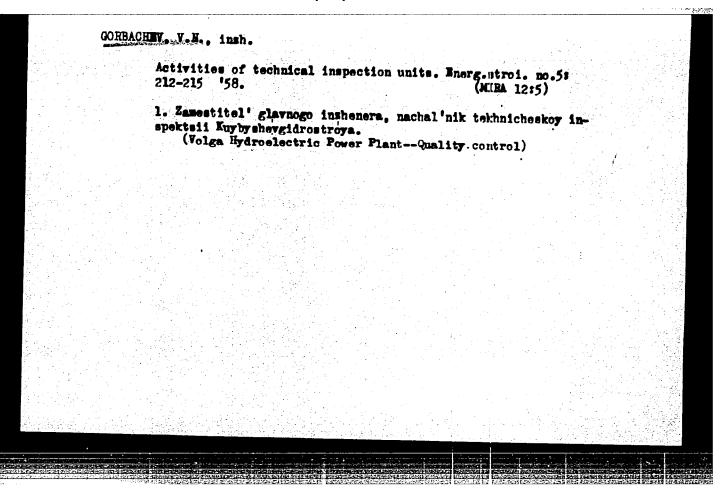
(MIRA 11:9)

1. Russia (1923— U.S.S.R.) Ministerstvo elektrostantsii. Dyuro tekhnicheskogo otcheta o stroitel'stve Volgo-Bona. 2. Chlem-korrespondent Akademii nauk SSER (for Akhutin). 3. Deystvitel'nyy chlen Akademii stroitel'stva i arkhitektury SSER (for Grishin, Raxin).

(Volga Don Canal—Hydraulic engineering)

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000516030001-5





I.I.Demidov's former house, present site of the Moscow Engineers in Geodesy, Aerial Photography, and Cartography architectural monument. Trudy MIIGAIK no.32:113-123	Institute for aphy, as an
1. Nauchno-issledovatel skiy sektor Moskovskogo insti- geodesii, aerofotos yeaki i kartografii. (Moscow-Buildings)	12:7) tuta inshenerov

ALEKSEYEV, G.P.; ANDON'YEV, V.S.; ARNGOL'D, A.V.; BASKIN, S.M.;
BASHMAKOV, N.A.; BEREZIN, V.D.; BERMAN, V.A.; BIYANOV, T.F.;
GORBACHEV, V.N.; GRECHKO, I.A.; GRINBUKH, G.S.; GROMOV, M.F.;
GUSEV, A.I.; DEMENT'YEV, N.S.; DMITRIYEV, V.P.; DUL'KIN, V.Ya.; ZVANSKIY, M.I.; ZENKEVIĆH, D.K.; IVANOV, B.V.; INYAKIN, A.Ya.; ISAYENKO, P.I.; KIPRIYANOV, I.A.; KITASHOV, I.S.; KOZHEVNIKOV, N.N.; KORMYAGIN, B.V.; KROKHIN, S.A.; KUDOYAROV, L.I.; KUDRYAVTSEV, G.N.; LARIN, S.G.; LEHEDEV, V.P.; LEVCHENKOV, P.N.; LEMZIKOV, A.K.; LIPGART, B.K.; LOPAREV, A.T.; MALYGIN, G.F.; MILOVIDOVA, S.A.; MIRONOV, P.I.; MIKHAYLOV, B.V., kand. tekhn. nauk; MUSTAFIN, Kh.Sh., kand. tekhn. nauk; NAZIMOV, A.D.; NEFEDOV, D.Ye.; NIKIFOROV, I.V.; NIKULIN, I.A.; OKOROCHKOV, V.P.; PAVLENKO, I.M.; PODROBINNÍK, G.M.; POLYAKOV, G.Ya.; PUTILIN, V.S.; RUDNIK, A.G.; RUMYANTSEV, Yu.S.; SAZONOV, N.N.; SAZONOV, N.F.; SAULIDI, I.P.; SDOHNIKOV, D.V.; SEMENOV, N.A.; SKRIPCHINSKIY, I.I.; SOKOLOV, N.F.; STEPANOV, P.P.; TARAKANOV, V.S.; TREGUBOV, A.I.; TRIGER, N.L.; TROITSKIY, A.D.; FOKIN, F.F.; TSAFEV, B.F.; TSETSULIN, N.A.; CHUBOV, V.Ye., kand. tekhn. nauk; ENGEL', F.F.; YUROVSKIY, Ya.G.; YAKUBOVSKIY, B.Ya., prof.; YASTREBOV, M.F.; KAMZIN, I.V., prof., glav. red.; MALYSHEV, N.A., zam. glav. red.; MEL'NIKOV, A.M., zam. glav. red.; RAZIN, N.V., zam. glav. red. i red. toma; VARPAKHOVICH, A.F., red.; PETROV, G.D., red.; SARKISOV, M.A., prof.; red.; SARUKHANOV, G.L., red.; SEVAST YANOV, V.I., red.; SMIRNOV, K, I., red.; GOTMAN, T.P., red.; BUL'DYAYEV, N.A., tekhn. red. (Continued on next card)

ALEKSEYEV, G.P. -- (continued). Card 2.

[Volga Hydroelectric Power Station; a technical report on the design and construction of the Volga Hydroelectric Power Station (Lenin), 1950-1958] Volzhskaia gidroelektrostantsiia; tekhnicheskii otchet o proektirovanii i stroitel'stve Volzhskoi GES imeni V.I.Lenina, 1950-1958 gg. V dvukh tomakh. Moskva, Gosenergoizdat. Vol.2.[Organization and execution of constrution and assembly work] Organizatsiia i proizvodstvo stroitel'nomontazhnykh rabot. Red. toma: N.V.Razin, A.V.Arngol'd, N.L. Triger. 1962. 591 p. (MIRA 16:2)

1. Deystvitel'nyy chlen Akademii stroitel'stva i arkhitektury SSSR (for Rasin).

(Volga Hydroelectric Power Station (Lenin) -- Design and construction)

# GORBACHEV, V. P. "Prolonged Drainage as a Method of Concentrating Antiseptic Substances and Bodies During the Treatment of Deep Wounds in Animals." Cand Vet Sci, Omsk. State Veterinary Inst. Min Higher Education, Omsk, 1954. (KL, No 10, Mar 55) SO: Sum. No. 670, 29 Sep 55—Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (15)

Early partial and total costration of bulls and rams. Veterinariis 35 no.11:43-44 B '58. (MIRA 11:11)

1. Omakiy veterinarayy institut. (Castration)

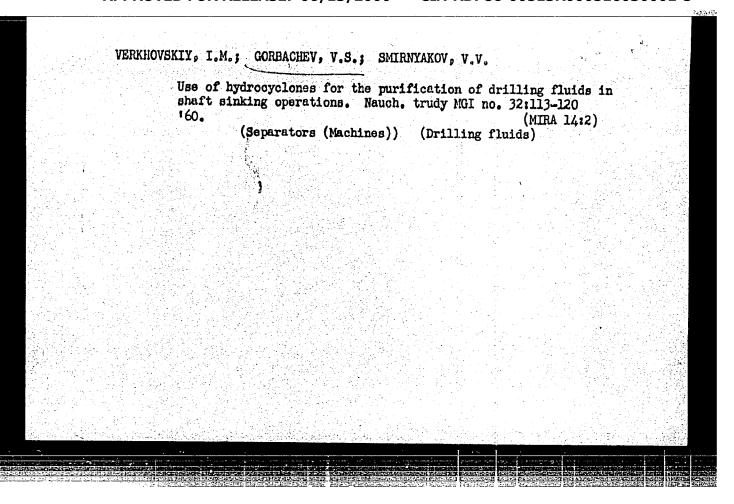
Using industrial methods installing heat insulation. spets. rab. v. stroi. 22 no.12:22-24 D 160.	Mont. i (MIRA 13:11)
1, Trest Stroytermoisolyatsiya. (Insulation (Heat))	
	가 하다 마까 존해 가는 하다. 사고 하는 사람들이 있는 하나를
	- 10 - 10 - 10 - 10 - 10 - 10 - 10 - 10
호텔 수 있다. 그 전에 함께 보고 있는데 보고 있는데 그 없는데 그는데 되었다. 19 후 19 전 10 전 19 전 10 전 19 전 19 전 19 전 19 전	

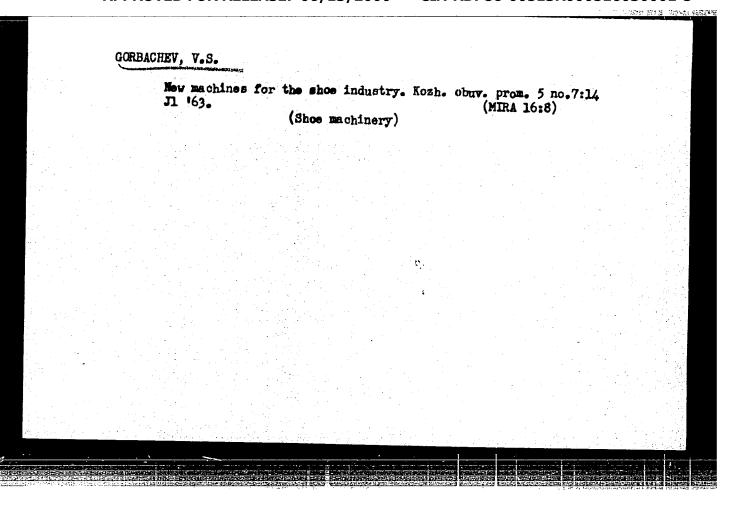
SMIRNOV, Gennadiy Dmitriyevich; GORBACHEV, Viktor Petrovich;
STERLIGOV, V.L., red.; KRASAVINA, A.M., tekhn. red.

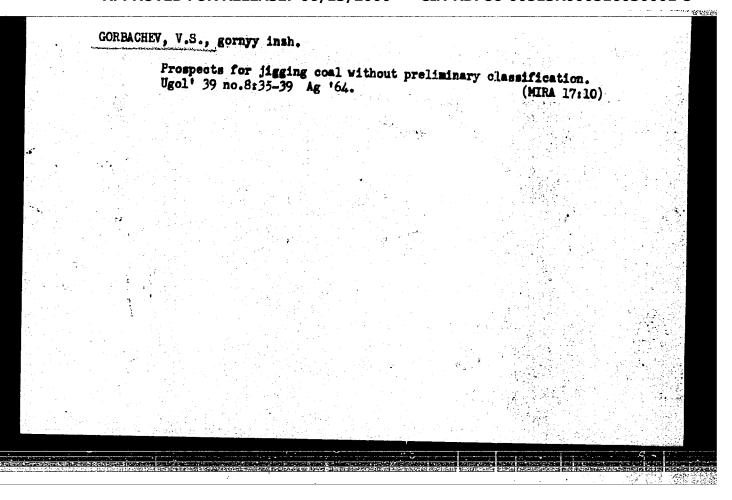
[Radar systems with active response] Radiolokatsionmye sistemy s aktivnym otvetom. Moskva, Voenizdat, 1962. 113 p.

(MIRA 15:5)

(Radar)







AUTHOR: Gorbachev, V.V. SOV/26-58-1-27/36

TITLE: The Discovery of a New Glacier in the North Urals (Otkrytiye

novogo lednika na Severnom Urale)

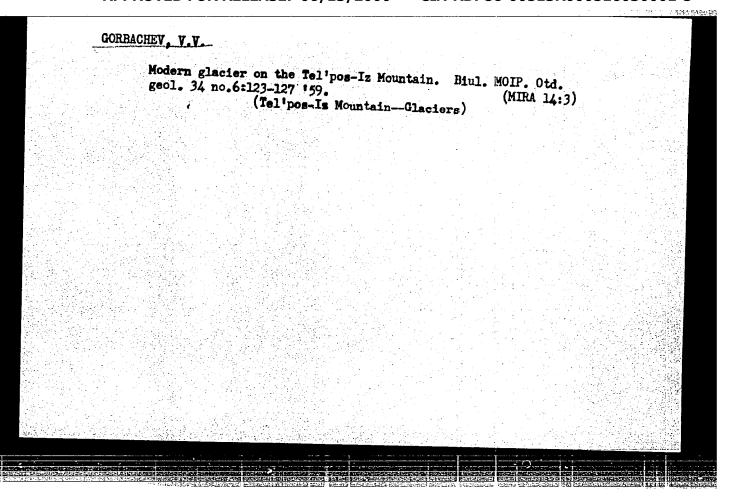
PERIODICAL: Priroda, 1958, Nr 1, p 115 (USSR)

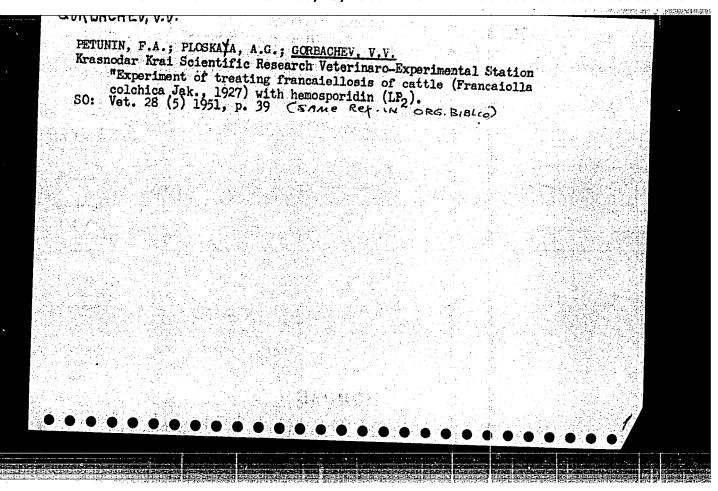
ABSTRACT: In summer 1956, a hitherto unknown glacier was discovered in the

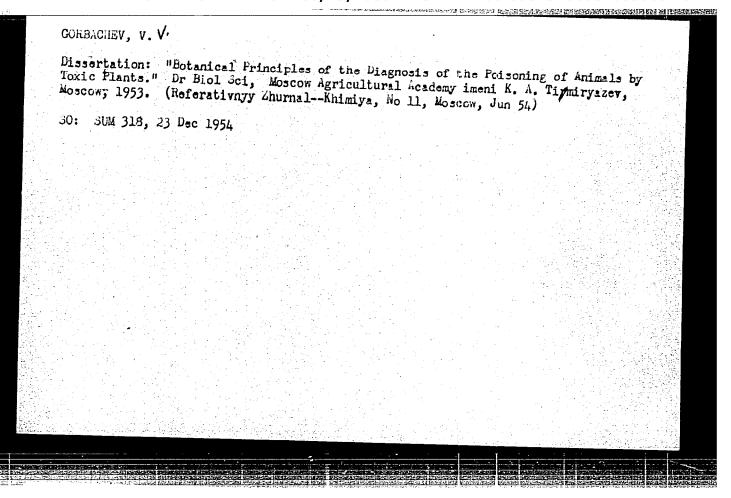
Northern Urals on the southeast slopes of the Tel'pos-Iz mountain range, I degree south of the glaciers of the Sablinskiy range; thought to be the southernmost glaciers of the Urals. It takes in an area of approximately 0.18 square km and goes down to an altitude of 1,050 m. It is about 800 m long and has an upper width of 500 and a lower width of about 150 m. The Tel'pos-Yu River emerges from a lake that has formed at the bottom of the glacier. There is I photo.

ASSOCIATION: Moskovskiy gosudarstvennyy universitet im. M.V. Lomonosova

(Moscow State University imeni M.V. Lononosov)







ARTYEVICH, Eleozar Moiseyevich; GORBACHEV, Vladimir Vasil'yevich; CHEREMISOV, K.M., red.

[Designing and operating baths] Proektirovanie i ekspluatatsiia ban', Moskva, Stroiisdat, 1965. 141 p.

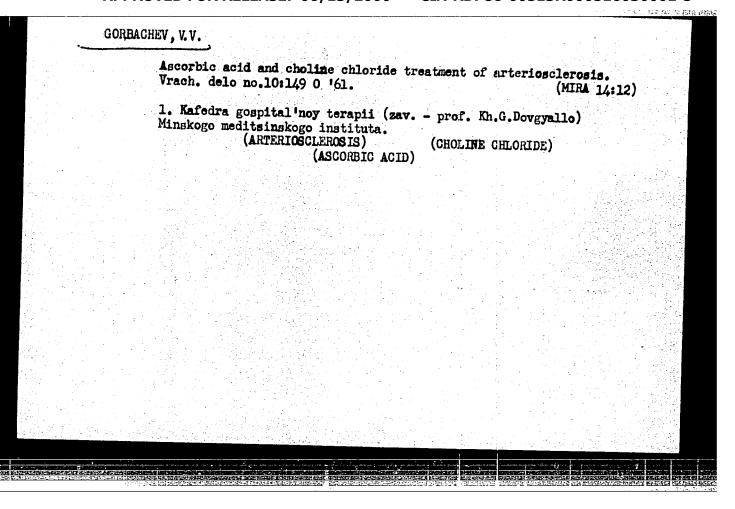
(MIRA 18:12)

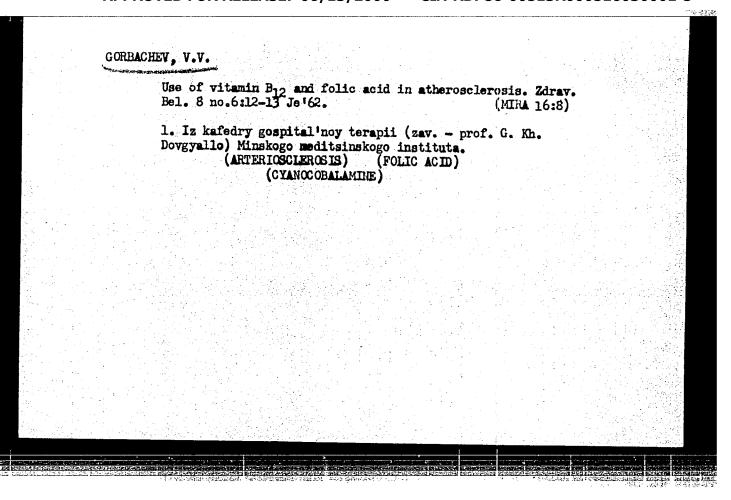
Influence of some vitar Zdrav. Belor. 5 no.12:2		( M	IRA 13.41		
nitsy - A.I. Shuba).	1. Iz kafedry gospital noy terapii (zav Minskogo meditsinskogo instituta (glavnyy v nitsy - A.I. Shuba).				
(LIPID NUTABOLISM)	(ARTERIOSCLEROSIS)	(VITANIES)			
		,			
<u> </u>	海铁铁铁 医牙髓性炎 清美 化基二氯甲二				

	ा । अस्ति । अस ।
GORBACHEV, V.V.	
Treatment of atherosclerosis. Zdrav.	Belor. 6 no.8:14-18 Ag '60.
l. Is kafedry gospital'noy terapii (se Dovgyallo) Minskogo meditsinskogo inst (ARTERIOSCIENOSIS	(MIRA 13:9) Weduyushchiy - professor G.Kh.
(ANTERLUSCIEROSIS	
이러 나이 그는 그는 사람이 네트라게 막아 생활하는 것이다.	
그렇게 된 통이 하는데 물이 하셨다. 그렇게 되었다. 그렇게 하실하는 것이다. 나는	
사용하게 되게 되었다고 하는 사람들이 그를 잃었다. 그 하는 모다 아	
그 보다 그는 이 열차님 살이 그렇다. 그들을 하고 있는 것 같습니다.	
	그 그 그 그 그 이 이 이 아이는 이 얼마 아이 그렇지?
	그리고 아이는 이 이 그리고 함께 살아 나는 상태를 했다.
	ALCONOMICS CONTROL OF THE PROPERTY OF THE PROP
	Topical Control of the Control of th

GORBACHEV, V. V., Cand Med Sci -- "Comparative evaluation of the effect of certain medicinal remedies the change of the contents of cholesterin, lecithin, protein and lipoprotein fractions in the blood serum of arteriosclerotte patients." Vil'nyus, 1961. (Min of Higher and Sec Spec Ed USSR. Vil'nyus State U im V. Kapsukas) (KL, 8-61, 260)

- 451 -





DOVGYALLO, G.Kh., prof.; GORBACHEY, V.V., kand. med. nauk

Treatment of atherosclerosis. Terap. arkh. 34 no.10:50-55
0'62 (MIRA 17:4)

1. Iz kafedry gospital'noy terapii ( zav. - prof. G.Kh.Dovgyallo)
Minskogo meditsinskogo instituta.

DOVGYALLO, G.Kh., prof.; GORRACHEV, V.V., kend. med. nank

Clinical course of influenza in Minsk during the 1961-1962
epidemic. Zdrav. Bel. 9 no.3:18-20 Mr'63 (MIRA 16:12)

1. Iz kafedry gospital'noy terapii Minskogo meditsinskogo instituta (zav. - prof. G. Kh. Dovgyallo).

CCESSION NR: AP5005269	5/018L/65/007/002/0367/0371
WIHOR: Vintaykin, Ye. Z.; Gorback	nev, V. V.; Gruzin, P. L.
TTLE: Investigation of thermal v	ibrations of the copper lattice atoms by the
neutron spectrometry method	<u> </u>
OURCE: Fizika tverdogo tela, v.	7, no. 2, 1965, 367,371
OPIC TAUS: copper, lattice vibratical	tion, neutron spectrometry, neutron scattering,
BSTRACT: In order to reconcile the	ne discrepancy between the dispersion relations
btained for copper in different co he neutron-spectrometry methods, i	vstallographic directions, by the x-ray and by the authors have developed appearatus and meas-
btained for copper in different or he neutron-spectrometry methods, it wed the dispersion relations using	rystallographic directions, by the r-ray and by the authors have developed appeartus and meas- g inelastic scattering of neutrons. The appear
btained for copper in different co he neutron-spectrometry methods, the red the dispersion relations using atus consists of a monochromator, thield near a horizontal reactor of	rystallographic directions, by the r-ray and by the authors have developed appeartus and meas- g inelastic scattering of neutrons. The uppe- unit, located behind a boroparation and lead hannel, and a two-axis spectrometer. the meno-
btained for copper in different of the neutron-spectrometry methods, and the dispersion relations using atus consists of a monochromator of third near a horizontal reactor of thromator crystal was a lead slab	rystallographic directions, by the r-ray and by the authors have developed appeartus and meas- g inelastic scattering of neutrons. The appe- unit, located behind a boroparation and lead

L 34893-65

ACCESSION HRE AP5005269

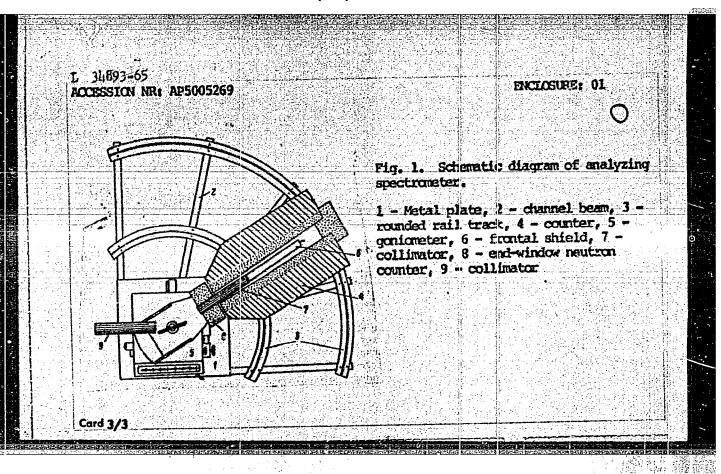
to the crystal monochromator. The double-axis spectrometed consisted of a position spectrometer used for neutron diffraction analysis (UNSA), described elsewhere (P. D. Abesadze et al. PTE, no. 2, 43, 1964) and a small-size GUR-3 x-ray geniometer. A schematic diagram of the analyzing spectrometer is shown in Fig. 1 of the Enclosure. The test results were in agreement with earlier neutron-diffraction data by others, but did not agree with the data obtained by the x-ray method. A preliminary analysis of the obtained dispersion relations has made it possible to check on the force-interaction model for the allows in the copper lattice, and has shown that when this model includes only the first and second co-ordination spheres it is unable to describe the obtained dispersion curves. The authors thank H. M. Goman'kova for calculating the program for the constant-Q muthod, and V. I. Goman'kova for calculating the program for the constant-Q muthod, and V. I. Goman'kova V. I. Ivley, D. F. Litvin, A. A. Loshmanov, and B. G. Lyashchenko for help with the work." Orig. art. hast 6 figures and 2 formulas.

ASSOCIATION: None

SUBMITTED: 27Jun64 ERCL: 01 SUB CODE: 58

NR REF SOV: OO2 OTHER: 014

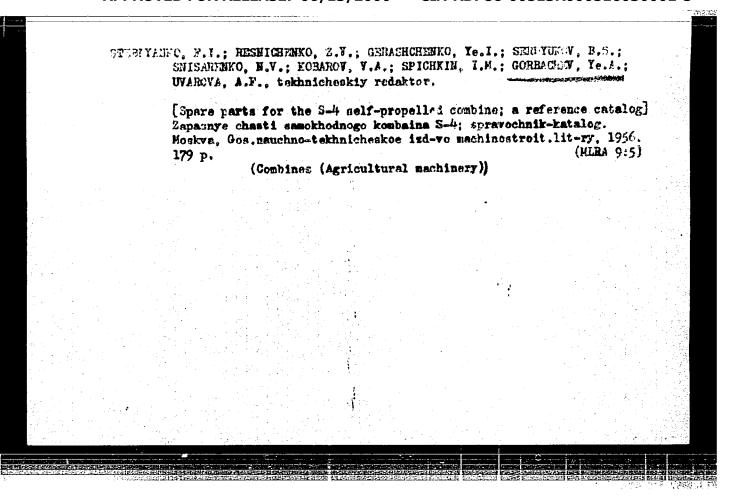
Card 2/3

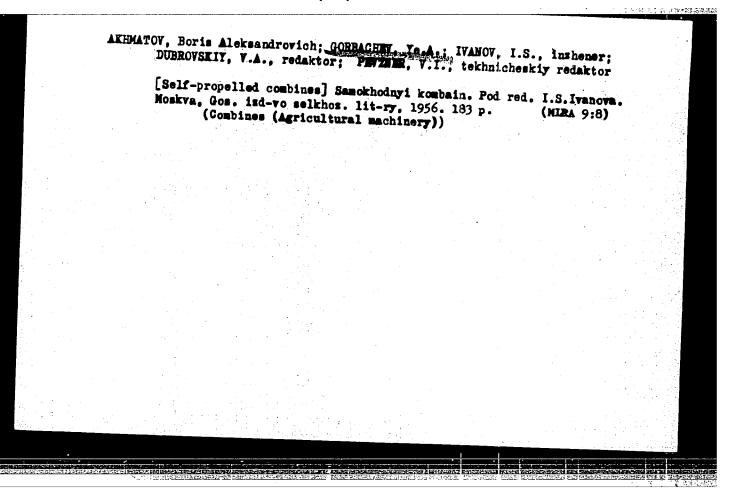


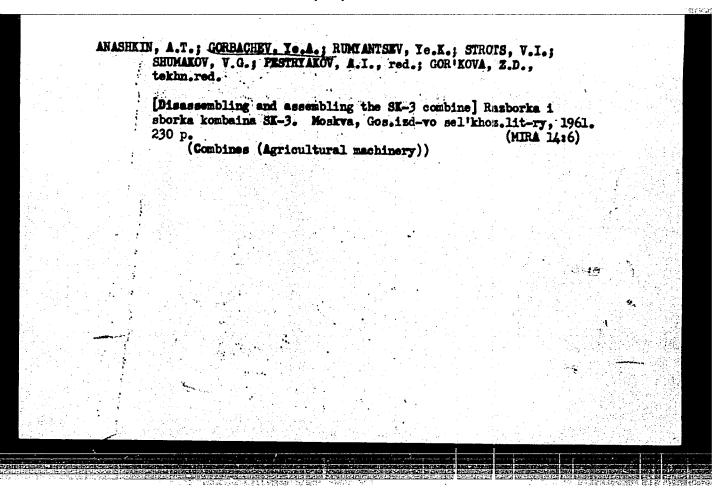
EWT(m)/T/EWP(t)/EWP(z)/EWP(b)/EWA(c) IJP(c) ACCESSION NR: AP5014615 UR/0181/65/007/006/1910/19 AUTHORS: Vintaykin, Ye. Z.; Gorbachev, V. V. TITLE: Phonon frequencies in the [100] direction of a nickel latt SOURCE: Fizika tverdogo tela, v. 7, no. 6, 1965, 1910-1912 3/ TOPIC TAGS: phonon, nickel, neutron scattering, nuclear force, intermolecular force ABSTRACT: The authors present results of experiments in which they have determined the frequencies of phonon in nickel, for wave vectors in the [100] direction. The experimental setup consisted of a monochromator and a positional spectrometer analyzer, consisting of the UNSA neutron-diffraction analysis apparatus. The monochromator and the analyzer were single-crystal lead plates with the (111) planes parailel to the surface. The wavelength of the incident neutrons was 1.44 A. A detailed description of the experimental setup was published elsewhere (FTT v. 7, 363, 1965; PTE no. 3, 1965). The investigated nickel sample was a sphere 40 mm in diameter, cut from a single

ACCESSION N	NR: AP5014615				- <b>- 7</b>	1
					ී	
copper is d with those methods, ar the various	lescribed in to obtained by x and attempts are results.	chralski method. he earlier paperray diffraction a e made to reconcil e interplanar forc es, which are foun	The resuland by neut the the disc e constant	ts are co ron-diffr repancies s are cal	mpared action between culated	
dal curves, first coord action is s are larger.	thus evidence that the that the author	ing that the interes. The character t obtained in coppe thank V. P. Ovch Orig. art. has: 1	action exter of the in er, but the	ends only teratomic force co	to the inter- onstants	
dal curves, first coord action is a are larger. single-crys ASSOCIATION metallurgii	thus evidence ination sphere imilar to that the authorital nickel. The interest of the interes	ing that the interes. The character t obtained in coppe thank V. P. Ovch	eaction extended to the interpolation for substantial figure and the substa	ends only teratomic e force of upplying i 1 table	to the inter- onstants the	
dal curves, first coord action is a are larger. single-crys ASSOCIATION metallurgii	thus evidence ination sphere in the authors tall nickel. Tsentral n. Moscow (Cen	ing that the interes. The character t obtained in coppe thank V. P. Ovch Orig. art. has: 1	eaction extended of the interpolation for substantial skips and search Institute of the interpolation of the interpolation in the interpolation of the inter	ends only teratomic e force of upplying i 1 table	to the inter- onstants the chernoy r Ferrous	
dal curves, first coord action is sare larger. single-crys	thus evidence ination sphere in the author stal nickel. Tsentral n. Moscow (Cen 06Feb65	ing that the interes. The character t obtained in coppes thank V. P. Ovch Orig. art. has: 1  yy nauchno-issledo tral Scientific Re	eaction extended of the interpolation for substantial skips and the search Institute of the search Ins	ends only teratomic force of ipplying it table institute for	to the inter- onstants the chernoy r Ferrous	

ACCESSION NR: AP5020189  AUTHOR: Vintaykin, Ya. Z.:	Gorbachev, V. V.; Gruzin, P	₹/1089/€5/018/	40
보이는 House 하는 바다를 보통하는 사고 House Hard Hard Hard Hard Hard Hard Hard Hard			3
neutron scattering	onon spectra in copper <u>latt</u>	ci by means o	Inclastic
SOURCE: Atomnaya energiya,	v. 18. no. 5. 1965. 507		
COPIC TAGS: phonon spectrus			多為這樣的意物的問題是
그런 사람들이 된 것으로 가장 사람들이 유럽하게 그렇게 되었다.	m, copper, neutron scatteri	g crystal la	tice.
crystal ABSTRACT: Descriptions are	olvan of the care		
crystal  ABSTRACT: Descriptions are frequencies in copper songer	given of the method and equ	ipment for de	erwining phonon
Crystal  ABSTRACT: Descriptions are frequencies in copper sonocies (111), by means of inclastic	olvan of the care	ipment for de	erwining phonon
ABSTRACT: Descriptions are frequencies in copper monocial (111), by means of inclastic ASSOCIATION: none	given of the method and equivers of the method and equivers of the symmetry disconnected of the symmetry of the meutron scattering.	ipment for de	erwining phonon
ABSTRACT: Descriptions are frequencies in copper songe	given of the method and equ	ipment for de	ermining phonon (110), and table.
ABSTRACT: Descriptions are frequencies in copper monocion (111), by means of inclastic ASSOCIATION: none SUBMITTED: C6Feb65	given of the method and equivers of the method and equivers of the symmetry disconnected of the constant of the symmetry of th	ijment for de editions (100) . art. has: 1	ermining phonon (110), and table.







1 - 39771 - 65 ENT(d)/ENT(m)/ENP(w)/ENA(d)/ENP(w)/ENP(k)/ENA(h) · Pf-4/Peb EY ACCESSION NR: ATSOC6655 8/2649/64/000/193/0113/0122 22 AUTHOR: Corbachev, Ye. N. (Candidate of technical sciences) HIMA: An approximate design method for elastic-plastic thells of revolution SOURCE: Moscow. Institut inzhenerov zheleznodorozhnogo transporta. Trudy, no. 193, 1964. Voprosy prikladnoy mekhaniki (Problems in applied mechanica), 113-122 TOPIC TACS: shell of revolution, shell design, body of revolution, electic plastic shell, axiosymmetric load, successive approximation ABSTRACT: The method of elastic solutions originally proposed by A. A. Il'yushin (Plastichnost', Costekhizdat, 1948) is used to solve the system of nonlinear differential equations of an elastic-plastic shell, subjected to an axially symmetrical load. It is proposed to reduce the nonlinear system of differential equations to a linear system with variable coefficients. The linear system is then solved by dividing the shell into a number of zones in which the variable coefficients can be assumed constant, thus enabling one to use the method of successive approximations. The problem reduces to the case of an anisotropic elastic shell if the stress intensity (1 is assumed as (1 = E(z,s)e, where

L 39771-65 ACCESSION NA: AT5006655

For the elastic case E(z,s) = E (constant modulus of elasticity), and for the plastic case it is dependent upon the coordinates of the point, while e, is the deformation. Consequently, at each point in the plastic region, the shell material can be assumed to have different elastic properties. The solution requires the determination of four constants of integration for each zone from continuity relationships at the cone boundaries. The problem of a cylindrical tube loaded by radial lumped pressure is considered as an example. The computed critical load differs by only 20% from the exact value given by A. A. Il yushin, when only 2 zones are considered. A larger number of zones will improve the accuracy of the solution but, in the author's opinion, a rough calculation should not require more than 2-3 zones. Orig. art. has: 20 formulas and 3 figures.

ASSOCIATION: Moskovskiy institut inzhenerov zhelezhnodorozhnigo transporta (Moscow institute of railway transport engineers)

SUMMITTED: 00

ENCL: 00

SUB CODE: AS ME

no ref sov: 007

OTHER: COO

Card 2/2

ACC NRI AT6025402	SOURCE CODE: UR/2649/66/000/225/0023/0027
AUTHOR: Gorbachev,	Ye. B. 8+1
ORG: None	$\mathcal{B}H$
	3.0
TITLE: Elastoplasti	c deformations and stresses at the junction point between a
ylindrical and a co	onical shell where the joint is reinforced by an elastic ring
OURCE: Moscow. Ins	titut inzhenerov zheleznodorozhnogo transporta. Trudy, no. 225,
966. Voprosy prikl	adnoy mekhaniki (Problems of applied mechanics), 23-27
OPIC TAGS: shell t	heory, elastic stress, elastic deformation, plastic deformation,
ylindric shell stru	icture
BSTRACT: The author	or generalizes the solution of the problem for the stressed and
erormed state at th	e connection point between a cylindrical and conical shell hem
ond the limits of e	lasticity to the case of a joint reinforced by an elastic ring
ne formulas given i	n the work are based on those derived in a previous paper by the
ne Point of Connect	e. B. "Forces and Deformations Beyond the Limit of Elasticity at ion Between a Cylindrical and a Conical Shell", Inzhenernyy
urnai, No. 1, 1961	.). A system of algebraic equations is given for determining the
ransverse force and	longitudinal bending moment in the n-th approximation. An exam-
re or apprication o	f the formulas is given based on a shell loaded by a given uniform
and a co	
ard 1/2	
Paramatan da Parama	

gated along the shells to a distance equal to 3 times the thickness. In addition to brider of 12-15 times the thickness from the point of contact. The plastic deformations are this region are vanishingly small with respect to their effect on the deformed are distributed more evenly with respect to the height of the cross section. Orig.	internal pressure assuming that the material of the shell has ideal plastic properties. The results show that considerable plastic deformations arise near the point of junc-gated along the shells to a distance equal to 3 times the thickness. In addition to order of 12-15 times the thickness from the point of contact. The plastic deformations in this region are vanishingly small with respect to their effect on the deformed state at the point of connection. Deformations in the secondary zones of plasticity art. has: 3 figures, 1 table, 4 formulas.  SUB CODE: 20/ SUEM DATE: None/ ORIG REF: 002	
this plastic region, a second zone of plasticity is generated at a distance of the order of 12-15 times the thickness from the point of contact. The plastic deformations in this region are vanishingly small with respect to their effect on the deformed state at the point of connection. Deformations in the secondary zones of plasticity are distributed more evenly with respect to the height of the cross section. Orig.  UB CODE: 20/ SUBM DATE: None/ ORIG REF: 002	this plastic region, a second zone of plasticity is generated at a distance of the order of 12-15 times the thickness from the point of contact. The plastic deformations state at the point of connection. Deformations in the secondary zones of plasticity art. has: 3 figures, 1 table, 4 formulas.	
in this region are vanishingly small with respect to their effect on the deformations state at the point of connection. Deformations in the secondary zones of plasticity are distributed more evenly with respect to the height of the cross section. Orig.  UB CODE: 20/ SUBM DATE: None/ ORIG REF: 002	in this region are vanishingly small with respect to their effect on the deformations state at the point of connection. Deformations in the secondary mones of plasticity art. has: 3 figures, 1 table, 4 formulas.	
re distributed more evenly with respect to the height of the cross section. Orig.  The code: 20/ SUBM DATE: None/ ORIG REF: 002	re distributed more evenly with respect to the height of the cross section. Orig.	
rt. has: 3 figures, 1 table, 4 formulas.  JB CODE: 20/ SUBM DATE: None/ ORIG REF: 002	rt. has: 3 figures, 1 table, 4 formulas.	
B CODE: 20/ SUBM DATE: Mone/ ORIG REF: 002		
	D CODE: 20/ SURM DATE: None/ ORIG REF: 002	
√ rd 2/2		
A)		a delta
N 2/2		
N 2/2		ţ
A)	도는 하다는 경우 왕이는 아파를 맞춰 가입니다. 그는 사람들은 사람들은 사람들은 사용이 되었다. 그 동생 <mark>모모</mark>	
A)		1
N 2/2	하는 사람들은 사람들은 사람들이 얼룩한 경기만원 하는 사람들이 만든 하는 하다 중심하는 사람들이 다음	_ [
		ř
· · · · · · · · · · · · · · · · · · ·		-
		Ę

	Everyda 26-27	Ap 163.	n the Yenisey	River.	Rech. to	runsp. 22 (MIRA 16:4	no.4:	
	l. Glar Gorbaci	vnyy inshe hov).	ener remontnoy	basy	flota na	Yeniseye	(for	
		(Yenisey	River-Inland	water	transpor	rtations-		
						Estploye		
						e de la companya de l		